Updating Shoreline Master Programs

Local/state cooperative development of Phase 1: Shoreline Characterizations



Shorelands and Environmental Assistance (SEA) Program Guidance Outreach Assistance Team

Thanks to: City of Sultan Adolfson Associates





Overview:

- State Shoreline Management Act (SMA)
- Local Shoreline Master Program (SMP)
- GMA/SMA consistency
- SMP Development Process
 - Shoreline Characterization (inventory and assessment)

Sultan Case Study:

- Shoreline characterization (jurisdiction scale)
- Watershed/adjacent lands assessment (landscape scale)

Shoreline Management Act (SMA) of 1971

The SMA applies to all 39 counties and more than 200 cities:



- marine waters of the15 coastal counties
- fresh water streams with > 20 cfs mean annual flow;
- **lakes** > 20 acres;
- upland shoreland areas extending 200 feet landward from waters edge; and
- associated wetlands

WA SMA requires that **local governments** develop *Shoreline Master Programs (SMPs)* to:

- protect ecological functions (no net loss)
- encourage public access
- support water-dependent development

State Department of Ecology advances the SMA goals by:

- providing assistance to local governments
- ensuring compliance with the policy and provisions of local SMPs

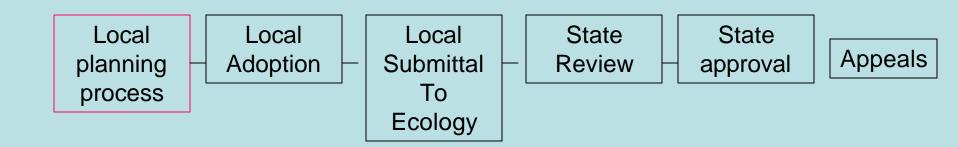
Development of SMP is a local/state cooperative effort.

A jurisdiction's SMP and Comprehensive Plan must be consistent:

- State SMA policy is GMA's 14th goal
- Local SMPs policies are GMA policies
- Local SMP regulations are GMA development regulations

Integrating shoreline characterizations and critical areas assessment can help ensure consistency.

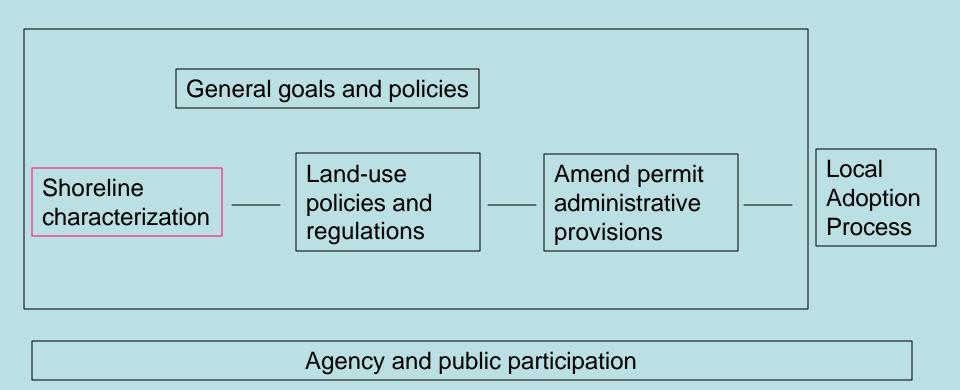
SMP update process



Agency and public participation

Ecology and local governments "shall not only invite but actively encourage participation..."

Local Planning Process



Shoreline characterizations

A well prepared Shoreline Characterization will:

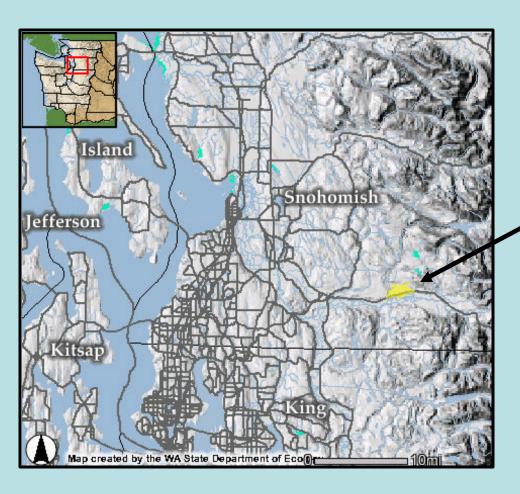
- Identify opportunities for:
 - protecting ecological functions (no net loss)
 - restoring degraded habitat (rehabilitate)
 - improving public access
 - supporting water-dependent use
- Provide information for assigning environment designations
- Help comply with GMA "best available science" requirement
- Reveal opportunities for coordinating with neighboring jurisdictions
- Baseline for adaptive management and cumulative impact assessment

Shoreline Characterizations

Ecology and local governments shall:

- Use a systematic interdisciplinary approach
- Consult with and obtain the comments of any federal, state, regional, or local agency having special expertise
- Consider all plans, studies, surveys, inventories
- Conduct or support such further research, studies, surveys, and interviews as are deemed necessary;
- Utilize all available information regarding hydrology, geography, topography, ecology, economics, and other pertinent data;
- Employ modern scientific data processing and computer techniques.

Case Study: Sultan shoreline characterization (jurisdiction scale)



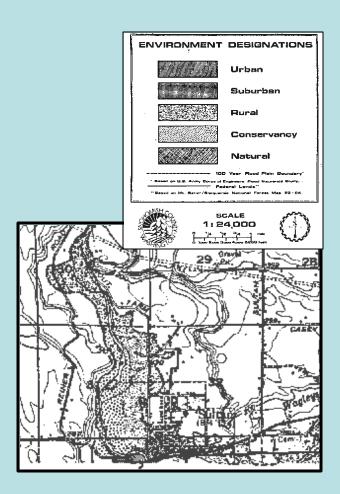
Sultan

Small river city (3 sq. miles) in rural Snohomish Co.

5 miles of SMA Streams: Skykomish, Wallace and Sultan Rivers

Status of Sultan's SMP update process

- City uses out-dated county SMP
- Updating comprehensive plan
- Goal is to adopt SMP next year
- Using planning commission meetings for public review of shoreline characterization



Steps in Sultan's shoreline characterization

- Sultan applied to Ecology for Coastal Zone Management (CZM) grant
- Ecology met with city and newly contracted consultants to develop scope of work - decided on phased approach
- Ecology recommended primary data sources
- Sultan commences shoreline inventory and assessment

Inventory:

Gather relevant studies, reports, EIS documents...

WASHINGTON CONSERVATION COMMISSION

Salmonid Habitat
Limiting Factors Analysis:
Snohomish River Water Resource
Inventory Area 7 – Final Report

2002

Snohomish River Basin Conditions and Issues Report

Prepared for the Snohomish Basin Work Group

> Pentect Environmental 1999

Washington Department of Fish and Wildlife

Salmonid and Steelhead Stock Inventory

EIS DOCUMENTS

Draft Sultan Comprehensive Plan

EIS documents for projects

COMPREHENSIVE FLOOD HAZARD MANAGEMENT PLAN

CITY OF SULTAN

Snohomish County

SHORELINE MASTER PROGRAM

Adopted by ordinance for CITY OF SULTAN

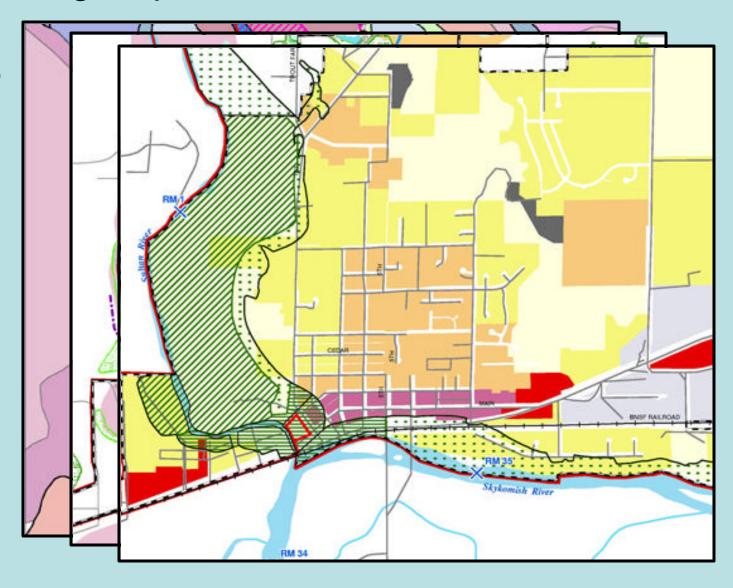
...core working maps...

Soils, geology, topography

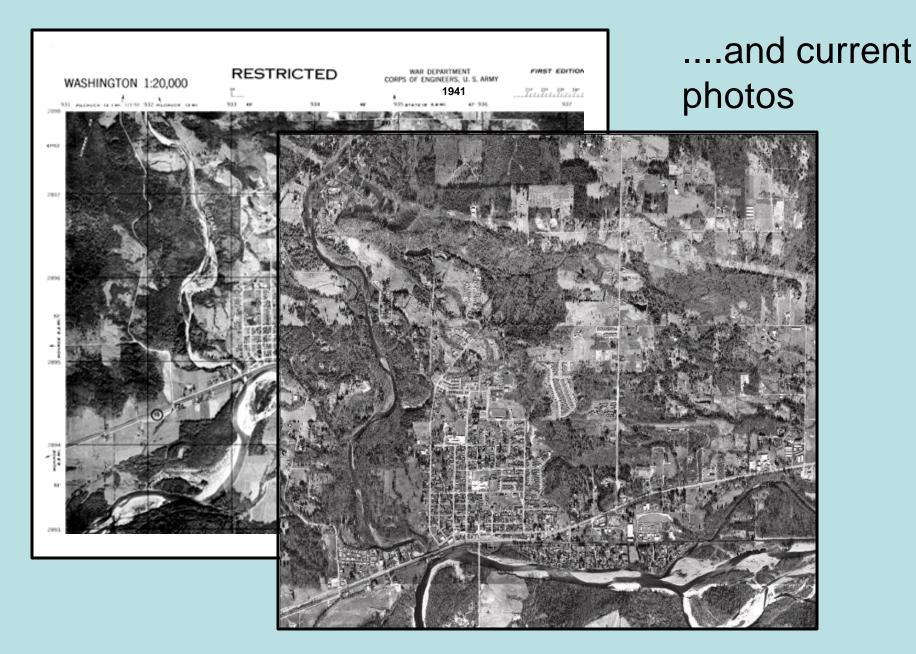
Critical areas:

- Wetlands
- Slopes
- Floodplain
- listed species habitat

Zoning and existing SMP designations



...historic.....



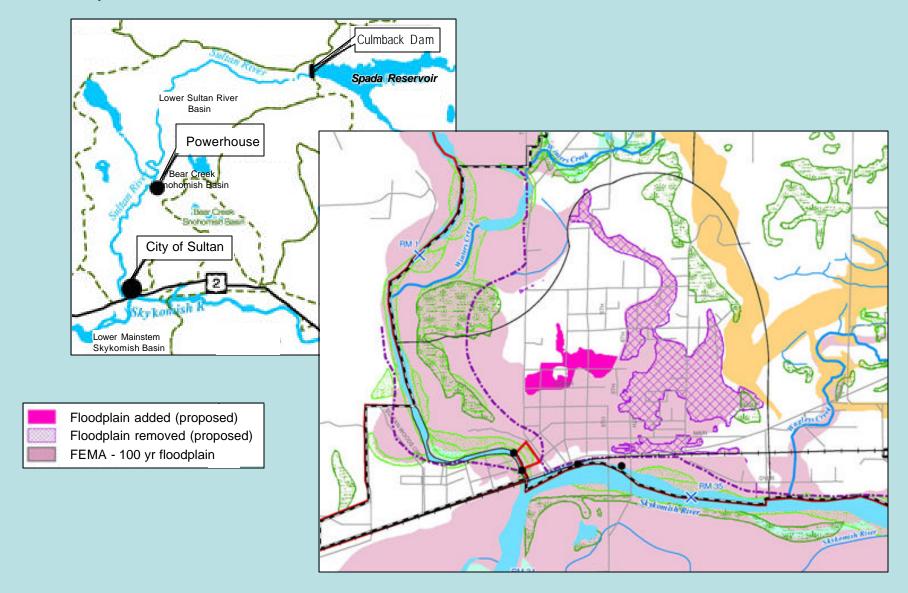
• Inventory items - core working maps, photos and relevant scientific literature used for analysis.

• Assessment products - synthesize information that emerges from working maps, literature review and field visit. This includes map overlays developed to address planning issues specifically faced by this jurisdiction.

These maps become the city's final map portfolio to accompany the shoreline characterization report.

Assessment:

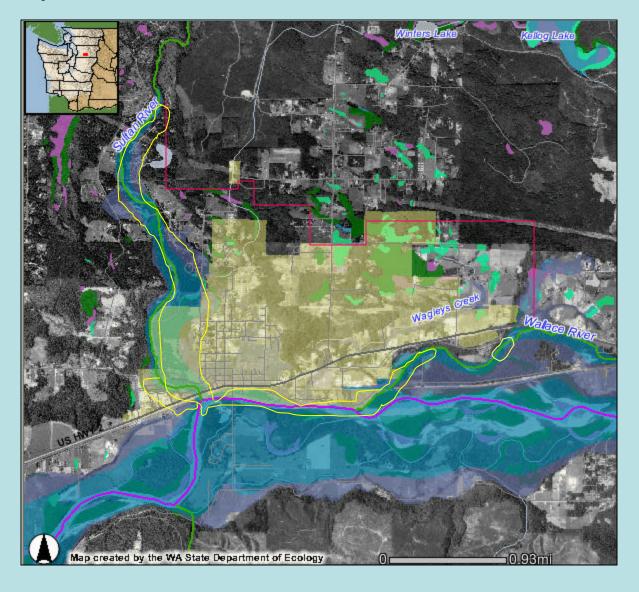
First step; note the obvious



Assessment:

Map preliminary shoreline jurisdiction-

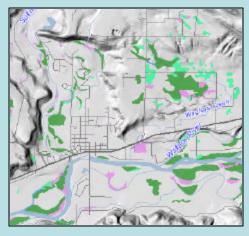




Assessment: Use all relevant information.

Example: Sultan preliminary wetland mapping:

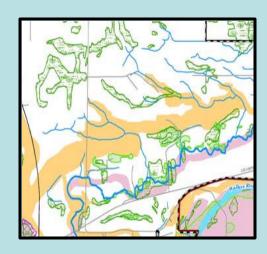
- Three sets of maps ranging from NWI to locally surveyed wetland delineations.
- Cross-comparison of wetland maps, hydric soils map and orthophoto to assess data layer accuracy.
- Document data sources and analysis methods for characterization report.



NWI WETLAND



ORTHO PHOTO



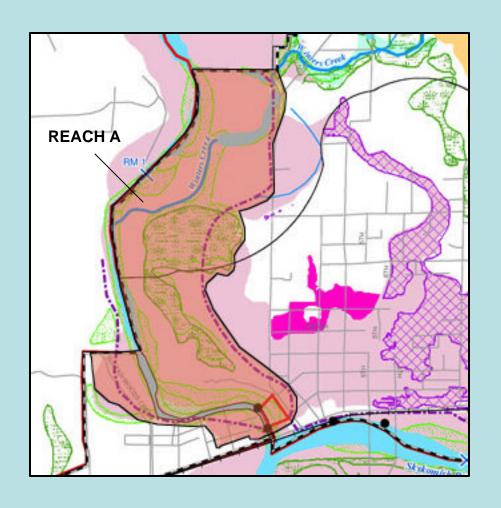
LOCALLY SURVEYED WETLANDS

Divide shoreline into reaches:



- Use land use, zoning and ownership
- Confluence of streams and tributary input points
- City boundary versus UGA
- Width of riparian vegetation versus developed area along stream banks
- Document basis for separation into each reach for characterization report

Map relevant layers



Characterize each reach

- key land use issues
- primary planning characteristics (e.g. flooding, public access)
- critical ecological functions

Field work -

Bring to the field:

 Printed zoomed photos indicating preliminary reaches with zoning, wetlands, soils, and jurisdictional boundaries



2) List of identified data gaps

Hydric soils indeterminate at North reach A

Check riparian density East reach C

Check possibility to extend public trail reach A

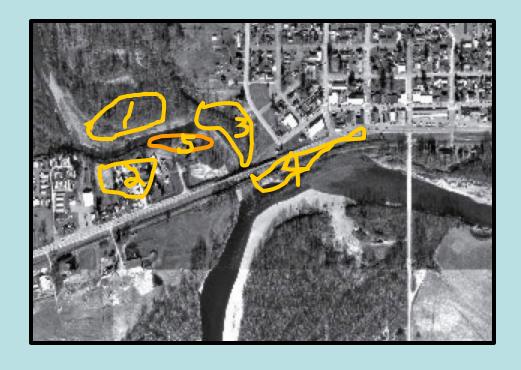
Potential wetlands in reach B along tributary

In the field:



Apply prior determined broad characterizations such as-

- 1. mixed age deciduous/coniferous forest 50-200 feet wide
- 2. residential development to edge of shoreline;
- 3. bank armoring with no streamside cover;
- 4. narrow deciduous riparian fringe 5-20 feet wide;
- 5. unvegetated gravel bar;
- 6. wetland bench;
- 7. golf course etc.



Integrate report findings, assessment maps, and field work to determine opportunity areas for:

- Protecting and restoring ecological function
- Improving public access

Reach A

A -1

A -2

A -3

A -5

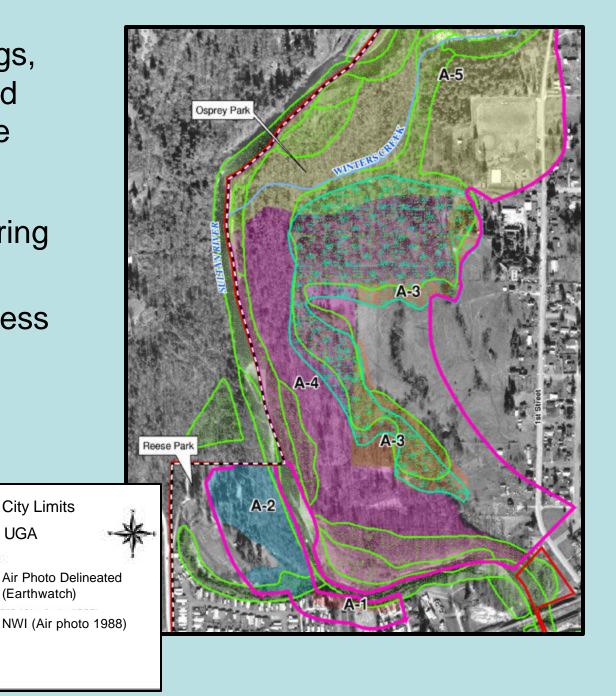
Opportunity Areas

City Limits

(Earthwatch)

UGA

 Supporting water dependent uses



Recommend new environment designations and document rationale.

Planning Segment	Existing Shoreline Environment Designation (Snohomish County SMP)	Intent or Purpose (Snohomish County SMP)	Preliminary Recommended Environment Designation	Rationale	
A	Conservancy, Rural and Urban (east bank); Conservancy and Urban (west bank)	Conservancy: The objective in designating a Conservancy Environment is to protect, conserve, enhance and manage existing natural resource areas and valuable historic and cultural areas. This should be done in a manner that will insure recreational benefits to the public, or achieve sustained resource utilization without substantial adverse modification of shorelines or topography. Rural: The objective of designating a Rural Environment is to protect agricultural land from urban expansion, restrict intensive development along undeveloped shorelines, function as a buffer between urban areas, and maintain open spaces	Natural Urban Conservancy Aquatic (portions of the Sultan River waterward of the ordinary high water mark)	Segment A along the Sultan River consists of parks and open space, floodplain, and wetlands, with limited single- family residential development.	
Co Ru Ur Pit	enment Designations enservancy eral eban enning Segment erer Mile eatercourse	Segment A Segment B Segment B	CEOUR AVE	Segment C	SKYKOMISH

Key points:

- Encourage Ecology and public participation early on.
- Shoreline characterization involves two parts inventory and assessment.
- Note the obvious.
- Use all available, relevant information.
- Field work should follow inventory- mainly for data validation and addressing data gaps.
- The final shoreline characterization should integrate findings in an accessible manner. It will be used by the local citizenry to inform decisions about where they live.

Sultan Case Study:



Shoreline characterization (jurisdiction scale)

Watershed/adjacent lands assessment (landscape scale)